

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

**EP 1 002 744 B1**

(12)

**EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention  
of the grant of the patent:  
**07.12.2005 Bulletin 2005/49**

(51) Int Cl.7: **B65D 83/04**, B65D 5/38

(21) Application number: **99117644.7**

(22) Date of filing: **08.09.1999**

**(54) Unit dose packaging system (UDPS) having a child resistant locking feature**

Verpackung für Einzeldosen mit einer kindersicheren Verriegelungsvorrichtung

Emballage pour doses unitaires muni d'un système de verrouillage résistant aux tentatives d'ouverture par les enfants

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE**

(30) Priority: **18.09.1998 US 157292**

(43) Date of publication of application:  
**24.05.2000 Bulletin 2000/21**

(73) Proprietor: **MeadWestvaco Corporation  
Stamford, CT 06905 (US)**

(72) Inventors:  
• **Johnstone, Scott Bowen  
Midlothian, Virginia 23113 (US)**

- **Jones, Brad Allen  
Chesterfield, Virginia 23832 (US)**
- **Mellon, Mark  
Midlothian, Virginia 23112 (US)**
- **Rigby, William Roger  
Midlothian, Virginia 23113 (US)**

(74) Representative: **Stoffregen, Hans-Herbert  
Patentanwälte Strasse & Stoffregen  
Postfach 2144  
63411 Hanau (DE)**

(56) References cited:  
**US-A- 2 353 819 US-A- 3 921 804  
US-A- 5 275 291**

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

**EP 1 002 744 B1**

## Description

### BACKGROUND OF THE INVENTION

#### Filed of the Invention

[0001] The invention relates to a unit dose paperboard package having an outer paperboard sleeve and an inner paperboard slide card releasably retained within said outer sleeve by a locking feature, said outer sleeve includes a plurality of side panels and an inner slide card stopping device preventing said inner slide card from being pulled completely out of the outer sleeve, and said inner slide card includes a plurality of unit dose dispensing means, and an inner slide card locking means.

[0002] Further, the invention relates to an outer paperboard sleeve blank for constructing a unit dose paperboard package together with an inner slide card, said blank includes a plurality of side panels, one of said plurality of side panels having a slide card stopping device.

[0003] In addition, the invention relates to an inner paperboard slide card for constructing a unit dose paperboard package with an outer paperboard sleeve, said inner paperboard slide card includes a plurality of paperboard panels, an inner slide card locking means and a plurality of unit dose dispensing means substantially adjacent to said inner slide card locking means.

[0004] Generally speaking, this invention relates to a two piece paperboard package that houses a unit dose product on an internal slide card within an outer paperboard shell. This package may have one or more internal or external lock(s) that prevent the slide card from being pulled out without triggering some type of lock release mechanism. This package is focused around providing a child resistant, senior-friendly unit dose package that can be opened and closed numerous times and then finally disposed of.

#### Description of the Related Art

[0005] It is known in the tablet dispenser art to employ a container which comprises the housing having an opening in its top wall and a drawer which slidably sits in the housing. Exemplary of such prior art is U.S. Patent No. 5,275,291 ('291) to L. C. Sledge, entitled "Tablet Dispenser". While the '291 reference employs a locking feature, the locking feature for the package relies on the lock forming an upward button which, when the drawer is closed, extends up through the opening into the wall of the housing. Also, it must be pointed out that the button may be pushed when it is in the relief zone. The relief zone is used to stop the slide drawer from being pulled out. By having this option, the user may choose to disable the child resistant feature of the '291 reference prematurely by pushing the button to release the drawer from the outer shell. Therefore, a more advantageous system, then, would be presented if such a button as-

sembly could be eliminated.

[0006] U.S. Patent No. 2,353,819 as the closest prior art relates to a dispensing container consisting of an outer paperboard sleeve and an inner paperboard slide card. Corresponding interlocking indentations and projections origin from the cover of the outer paperboard sleeve and the inner paperboard slide card. This causes an interlocking of sleeve and card for providing access to single holes containing tablets or pills. Thereby, the projections in the card run directly next to the holes and are arranged such that the inner card can successively be pulled out of the sleeve for subsequently providing access to a hole being filled with a pill or a tablet. Special safety precautions for avoiding an uncontrolled pulling-out of the inner card of sleeve are not given.

[0007] It is apparent from the above that there exists a need in the art for a unit dose packaging system (UDPS) which is able to dispense medications and which at least equals the child resistant characteristics of the known dispensers, but which at the same time eliminates the use of the button release mechanism.

[0008] It is a purpose of this invention to fulfill this and other needs in the art in a manner more apparent to the skilled artisan once given the following disclosure.

### SUMMARY OF THE INVENTION

[0009] Generally speaking, this invention fulfils these needs by providing a unit dose paperboard package having an outer paperboard sleeve and an inner paperboard slide card releasably retained within said outer sleeve by a locking feature, said outer sleeve includes a plurality of side panels and an inner slide card stopping device preventing said inner slide card from being pulled completely out of the outer sleeve, and said inner slide card includes a plurality of unit dose dispensing means, and an inner slide card locking means wherein said plurality of side panels of said outer sleeve is operatively connected to each other such that one of said plurality of side panels includes said inner slide card stopping device and a first inner slide card releasing means and another of said plurality of said panels includes a second inner slide card releasing means, the first and second inner slide card releasing means forming a part of the locking feature, both the inner slide card stopping device and said locking feature co-operating with said inner slide card locking means.

[0010] In certain preferred embodiments, the inner slide card retaining means are extension panels. Also, the first inner card releasing means includes a cut-out area and a node on one of the side panels. Also the second inner slide card releasing means includes a release button. Finally, the inner slide card retaining/releasing means includes panel extensions.

[0011] In another further preferred embodiment, the outer sleeve of the package provides additional protection for the inner slide card, which holds the unit dose product being used. The inner slide portion of the pack-

age has a stop feature that connects with a catch feature on the outer sleeve to prevent the user from pulling the inner slide completely away from the outer sleeve. Furthermore, the package is focused around providing a child-resistant, senior-friendly unit dose package that can be opened and closed numerous times and then finally disposed of.

**[0012]** The invention provides further an outer paperboard sleeve blank for constructing a unit dose paperboard package together with an inner slide card, said blank includes a plurality of side panels, one of said plurality of side panels having a slide card stopping device wherein said plurality of side panels is operatively connected to each other such that one of said plurality of side panels includes said inner slide card stopping device and a first inner slide card releasing means and another of said plurality of side panels includes a second inner slide card releasing means wherein a lock release mechanism for pulling out the inner slide card retained within the outer sleeve is constructed from the two inner slide card releasing means and when said two side panels are operatively connected to each other.

**[0013]** In addition, the invention provides an inner paperboard slide card for constructing a unit dose paperboard package with an outer paperboard sleeve, said inner paperboard slide card includes a plurality of paperboard panels, an inner slide card locking device and a plurality of unit dose dispensing means substantially adjacent to said inner slide card locking means wherein said panels of said paperboard slide card are parts of a paperboard blank to be folded over, at least one of said panels has an extension panel to be folded over said at least one panel for forming said inner card locking means.

**[0014]** The preferred unit dose package, according to this invention, offers the following advantages: lightness in weight; resistance to tampering; child resistance; senior friendliness; excellent durability; ease of assembly; unit dose protection and excellent economy. In fact, in many of the preferred embodiments, these factors of lightness in weight, tamper resistance, child resistance, senior friendliness, durability, ease of assembly, unit dose protection and economy are optimized to the extent that is considerably higher than heretofore achieved in prior, known unit dose packages.

**[0015]** The above and other features of the present invention, which will become more apparent as the description proceeds, are best understood by considering the following detailed description in conjunction with the accompanying drawings, wherein like characters represent like parts throughout the several views and in which:

#### BRIEF DESCRIPTION OF THE DRAWINGS

**[0016]**

FIGURE 1 is a plan view of an outer sleeve blank

for a unit dose paperboard package with a child resistant lock, according to the present invention; FIGURE 2 is a plan view of the outer sleeve blank of Figure 1 with one of the panels folded, according to the present invention;

FIGURE 3 is a plan view of the outer sleeve blank of Figure 2 with another panel folded, according to the present invention;

FIGURE 4 is a plan view of the outer sleeve blank of Figure 3 with another panel folded, according to the present invention;

FIGURE 5 is an isometric view of a completely constructed outer sleeve for the unit dose package, according to the present invention;

FIGURE 6 is a plan view of an inner slide card blank for the unit dose package, according to the present invention;

FIGURE 7 is a plan view of the blank for the inner slide card of Figure 6 with one of the panels folded, according to the present invention;

FIGURE 8 is a plan view of the inner slide card blank of Figure 7 with another panel folded, according to the present invention;

FIGURE 9 is a plan view of the inner slide card blank of Figure 8 with one of the panels folded, according to the present invention;

FIGURE 10 is an isometric view of a completely constructed unit dose package with the inner slide card located within the outer sleeve and a tear-away section of package showing the locking feature, according to the present invention; and

FIGURE 11 is a plan view of the inner slide card being pulled out, but lockably retained within the outer sleeve of the unit dose package, according to the present invention.

#### DETAILED DESCRIPTION OF THE INVENTION

**[0017]** Paperboard is used as a substrate for outer sleeve blank 2 (Figure 1) and inner slide card blank 100 (Figure 6) and is, typically, constructed from a sheet of bleached sulphate, solid unbleached sulphate (SUS) or clay-coated newsback (CCNB). Definitively, the term paperboard describes paper within the thickness range of 0.2 to 0.7 mm (0.008 to 0.028 inches). The invention is relevant to the full scope of such a range, as applied to packaging and beyond.

**[0018]** When used for unit dose packaging stock, the paperboard is usually clay coated on at least one side surface and occasionally on both sides. The paperboard trade characterizes a paperboard web or sheet that has been clay coated on one side as C1S and C2S for a web coated on both sides. Compositionally, the paperboard coating is a fluidized blend of minerals such as coating clay, calcium carbonate and/or titanium dioxide with starch or adhesive which is smoothly applied to the traveling surface. Successive densification and polishing by calendaring finishes the mineral coated surface

to a high degree of smoothness and superior graphic print surface.

**[0019]** With reference first to Figure 1, there is illustrated an advantageous environment for use of the concepts of this invention. In particular, outer sleeve paperboard blank 2 is illustrated. Blank 2 includes, in part, extension panels 4 and 8, conventional glue area 6, side panels 10, 18 and 26, cut away areas 12 and 14, node 16, side panels 20 and 24, cut outs 21 and 28, end flaps 22 and 32 and release button 30.

**[0020]** Cut away areas 12 and 14 and cut outs 21 and 28 are constructed by suitable cutting techniques. Release button 30 is cut within panel 26 by conventional techniques.

**[0021]** As shown in Figure 2, extension 4 is folded over and adhesively attached to panel extension 8 by conventional techniques.

**[0022]** With respect to Figure 3, extension panel 8 is folded over side panel 10.

**[0023]** As shown in Figure 4, side panel 10 is folded over side panel 18. Also, as can be seen in Figure 4, side panel 10 includes conventionally applied adhesive area 34.

**[0024]** As shown in Figure 5, there is illustrated a completely constructed outer sleeve 50 which includes release button 30 and panel extension 4. In this manner, panel extension 4 acts as a stopping device that prevents inner slide card 100 (Figure 9) from being pulled completely out of outer sleeve 50 (Figure 10). In particular, as shown in Figure 8, folded panels 4 and 8 extend down towards side panel 18 to create the stopping device.

**[0025]** With respect to Figure 6, there is illustrated inner slide card paperboard blank 100. Blank 100 includes, in part, side panels 102 and 104, side panel extensions 106 and 108, conventional unit dose packaging holes 110, conventional unit dose packaging perforated areas 112, panels 114 and 116, side panels 118 and 120 and conventional unit doses 122. Also, it is to be understood that side panels 102, 104, 118 and 120, extensions 106 and 108, and panels 114 and 116 are constructed of the same material as side panel 10 (Figure 1).

**[0026]** In Figure 7, panels 102 and 118 have been folded over panels 104 and 120, respectively, such that unit doses 122 extend through holes 110 in panels 102 and 118 and unit doses 122 are trapped in holes 110.

**[0027]** As shown in Figure 8, extension panel 106 is folded over side panel 102.

**[0028]** As shown in Figure 9, side panel 118 is folded over side panel 102 along panel 114 to complete the structure of inner slide card 100.

**[0029]** As shown in Figure 10, inner slide card 100 is located within outer sleeve 50.

**[0030]** Package 150 also includes locking features as previously discussed. The locking features consist of release button 30, cut away 14, node 16 and extension panels 6 and 8. In this manner, after inner slide card 100

is placed within outer sleeve 50, extension 106 of inner sleeve 100, extends past opening 14 of outer sleeve 50 as shown in Figure 10. Once extension 106 is moved past opening 114, extension 106 springs up and enters into opening 14 and is biased against node 16. Therefore, if the end user attempts to remove inner slide card 100 from outer sleeve 50, extension 106 slides up along opening 14 to prevent the removal of inner slide card 100 from outer sleeve 50. However, in order to deactivate the sliding movement of extension 106 along opening 14, the end user merely has to push release button 30 such that extension 106 is pushed against node 16 and below opening 14, thereby preventing extension 106 from sliding up through opening 14.

**[0031]** Finally, Figure 11 shows the retaining feature of package 150. After release button 30 has been pushed in order to allow the end user to pull inner slide card 100 from outer sleeve 50, extension 106 interacts with the upper end of sleeve 50 near cut away 28 such that extension 106 is caught and retained by folded over extensions 4 and 8 as shown in Figure 5.

**[0032]** It is to be understood that the purpose of outer sleeve 50 is to house inner slide card 100. In addition, outer sleeve 50 has one or more release buttons 30 to release extension 106 from opening 14. Also, outer sleeve 50 can be formed using a number of conventional techniques that are standard to the folding carton industry. Finally, package 150 can be sealed by conventional techniques to simulate a tamper evident like presence.

**[0033]** It is also to be understood that the purpose of inner slide card 100 is to retain unit dose packaging within outer shell 50. Inner slide card 100 allows the end user to gain access to the unit dose product 122 while pulling inner slide card 100 out until it stops, as shown in Figure 11. Extension 106 is used for two functions in the present invention. First, folded extensions 4 and 8 and extension 106 prevent slide card 100 from being completely removed outer shell 50. The second function is that extension 106 serves as a locking mechanism when the package 150 is in the closed position, as shown in Figure 10.

**[0034]** Once given the above disclosure, many other features, modifications or improvements will become apparent to the skilled artisan. Such features, modifications or improvements are, therefore, considered to be a part of this invention, the scope of which is to be determined by the following claims.

## Claims

1. A unit dose paperboard package (150) having an outer paperboard sleeve (50) and an inner paperboard slide card (100) releasably retained within said outer sleeve (50) by a locking feature (14, 16, 30), said outer sleeve (50) includes a plurality of side panels (10, 18, 20, 24, 26) and an inner slide card stopping device (4, 8) preventing said inner

slide card (100) from being pulled completely out of the outer sleeve (50), and said inner slide card (100) includes a plurality of unit dose dispensing means (110), and an inner slide card locking means (106, 108),

**characterized in**

**that** said plurality of side panels (10, 18, 20, 24, 26) of said outer sleeve (50) is operatively connected to each other such that one of said plurality of side panels (10) includes said inner slide card stopping device (4, 8) and a first inner slide card releasing means (16) and another of said plurality of said panels (26) includes a second inner slide card releasing means (30), the first and second inner slide card releasing means (16, 30) forming a part of the locking feature (14, 16, 30), both the inner slide card stopping device (4, 8) and said locking feature (14, 16, 30) co-operating with said inner slide card locking means (106, 108).

2. The package as in claim 1,

**characterized in**

**that** said inner paperboard slide card (100) is comprised of a plurality of paperboard panels (102, 104, 118, 120) and wherein at least one of said plurality of paperboard panels includes a plurality of unit dose packaging holes (110).

3. The package as in claim 1,

**characterized in**

**that** the inner slide card (100) is folded such that an end user gains access to a unit dose trapped in the packaging hole (110) while pulling the inner slide card out of the outer sleeve (50) until it is stopped by the inner slide card stopping device (4, 8).

4. The package as in claim 1 or 3,

**characterized in**

**that** said inner slide card retaining means is further comprised of: at least one side panel extension (8) hingedly attached to said side panel (10).

5. The package as in anyone of claims 1 to 4,

**characterized in**

**that** said first inner slide card releasing means is further comprised of: a cut-out means (14); and a node means (16) located substantially adjacent to said cut-out means.

6. The package as in anyone of claims 1 to 5,

**characterized in**

**that** said second inner slide card releasing means is further comprised of: a release button (30).

7. The package as in anyone of claims 1 to 6,

**characterized in**

**that** said inner slide card locking means is further comprised of: a panel extension means (106, 108).

8. The package as in anyone of claims 1 to 7,

**characterized in**

**that** at least two side panels (10, 26) of the outer sleeve (50) are folded over and adhered to each other.

9. An outer paperboard sleeve blank (2) for constructing a unit dose paperboard package (150) together with an inner slide card (100), said blank includes a plurality of side panels (10, 18, 20, 24, 26), one of said plurality of side panels having a slide card stopping device (4, 8),

**characterized in**

**that** said plurality of side panels (10, 18, 20, 24, 26) is operatively connected to each other such that one of said plurality of side panels (10) includes said inner slide card stopping device (4, 8) and a first inner slide card releasing means (16) and another of said plurality of side panels (26) includes a second inner slide card releasing means (30) wherein a lock release mechanism for pulling out the inner slide card (100) retained within the outer sleeve (50) is constructed from the two inner slide card releasing means and when said two side panels are operatively connected to each other.

10. The outer paperboard sleeve blank as in claim 9,

**characterized in**

**that** said first inner slide card releasing means is further comprised of: a cut-out means (14); and a node means (16) located substantially adjacent to said cut-out means.

11. The outer paperboard sleeve blank as in claim 9 or 10,

**characterized in**

**that** said second inner slide card releasing means is further comprised of a release button (30).

12. An inner paperboard slide card (100) for constructing a unit dose paperboard package (150) with an outer paperboard sleeve (15), said inner paperboard slide card includes a plurality of paperboard panels (102, 104, 118, 120), an inner slide card locking means (106, 108) and a plurality of unit dose dispensing means (110) substantially adjacent to said inner slide card locking means,

**characterized in**

**that** said panels (102, 104, 118, 120) of said paperboard slide card are parts of a paperboard blank (100) to be folded over, at least one of said panels has an extension panel (106, 108) to be folded over said at least one panel for forming said inner card locking means (106, 108).

## Patentansprüche

1. Einzeldosispappverpackung (150) mit einer äußeren Pappmanschette (50) und einer lösbar in der äußeren Manschette (50) durch eine Verriegelungsvorrichtung (14, 16, 30) gehaltenen inneren Pappsteckkarte (100), wobei die äußere Manschette (50) eine Vielzahl von Seitenpaneelen (10, 18, 20, 24, 26) und ein Rückhalteelement (4, 8) für die innere Steckkarte umfasst, das verhindert, dass die innere Steckkarte (100) vollständig aus der äußeren Manschette (50) herausgezogen wird, und wobei die innere Steckkarte (100) eine Vielzahl von Einzeldosisabgabemitteln (110) und ein Verriegelungsmittel (106, 108) für die innere Steckkarte umfasst,  
**dadurch gekennzeichnet,**  
**dass** die Vielzahl von Seitenpaneelen (10, 18, 20, 24, 26) der äußeren Manschette (50) derart wirkend miteinander verbunden ist, dass eine der Vielzahl von Seitenpaneelen (10) das Rückhalteelement (4, 8) für die innere Steckkarte und ein erstes Auslösemittel (16) für die innere Steckkarte beinhaltet und ein anderes der Vielzahl von Seitenpaneelen (26) beinhaltet ein zweites Auslösemittel (30) für die innere Steckkarte, wobei das erste und zweite Auslösemittel (16, 30) für die innere Steckkarte einen Teil der Verriegelungsvorrichtung (14, 16, 30) bilden, wobei sowohl das Rückhalteelement (4, 8) für die innere Steckkarte, als auch die Verriegelungsvorrichtung (14, 16, 30) mit dem Verriegelungsmittel (106, 108) für die innere Steckkarte zusammenwirken.
2. Verpackung nach Anspruch 1,  
**dadurch gekennzeichnet,**  
**dass** die innere Pappsteckkarte (100) eine Vielzahl von Papppaneelen (102, 104, 118, 120) umfasst und wobei zumindest eine der Vielzahl von Papppaneelen eine Vielzahl von Einzeldosisverpackungsöffnungen (110) beinhaltet.
3. Verpackung nach Anspruch 1,  
**dadurch gekennzeichnet,**  
**dass** die innere Steckkarte (100) derart gefaltet ist, dass ein Endverbraucher Zugriff erlangt auf eine in dem Verpackungsloch (110) eingekeilte Einzeldosis, indem die innere Steckkarte aus der äußeren Manschette (50) herausgezogen wird, bis sie durch das Rückhalteelement (4, 8) für die innere Steckkarte gestoppt wird.
4. Verpackung nach Anspruch 1 oder 3,  
**dadurch gekennzeichnet,**  
**dass** das Rückhaltemittel für die innere Steckkarte des Weiteren umfasst: zumindest eine aufklappbar an der Seitenpaneele (10) befestigte Seitenpaneelelverlängerung (8).
5. Verpackung nach einem der Ansprüche 1 bis 4,  
**dadurch gekennzeichnet,**  
**dass** das erste Auslösemittel für die innere Steckkarte des Weiteren umfasst: ein Ausschnittmittel (14); und ein im Wesentlichen an das Ausschnittmittel angrenzendes Verbindungsmittel (16).
6. Verpackung nach einem der Ansprüche 1 bis 5,  
**dadurch gekennzeichnet,**  
**dass** das zweite Auslösemittel für die innere Steckkarte des Weiteren umfasst: einen Auslöseknopf (30).
7. Verpackung nach einem der Ansprüche 1 bis 6,  
**dadurch gekennzeichnet,**  
**dass** das Verriegelungsmittel für die innere Steckkarte des Weiteren umfasst: ein Paneelenverlängerungsmittel (106, 108).
8. Verpackung nach einem der Ansprüche 1 bis 7,  
**dadurch gekennzeichnet,**  
**dass** zwei Seitenpaneelen (10, 26) der äußeren Manschette (50) übereinander gefaltet und miteinander verklebt sind.
9. Zuschnitt (2) einer äußeren Pappmanschette zur Gestaltung einer Einzeldosispappverpackung (150) zusammen mit einer inneren Steckkarte (100), wobei der Zuschnitt eine Vielzahl von Seitenpaneelen (10, 18, 20, 24, 26) umfasst, wobei eine der Vielzahl von Seitenpaneelen ein Rückhalteelement (4, 8) für die innere Steckkarte aufweist,  
**dadurch gekennzeichnet,**  
**dass** die Vielzahl von Seitenpaneelen (10, 18, 20, 24, 26) derart wirkend miteinander verbunden ist, dass eine der Vielzahl von Seitenpaneelen (10) das Rückhalteelement (4; 8) für die innere Steckkarte und ein erstes Auslösemittel (16) für die innere Steckkarte beinhaltet und ein anderes der Vielzahl von Seitenpaneelen (26) beinhaltet ein zweites Auslösemittel (30) für die innere Steckkarte, wobei ein Entriegelungsmechanismus zum Herausziehen der in der äußeren Manschette (50) gehaltenen inneren Steckkarte (100) gestaltet wird von den beiden Auslösemitteln für die innere Steckkarte und während die beiden Seitenpaneelen wirkend miteinander verbunden sind.
10. Zuschnitt einer äußeren Pappmanschette nach Anspruch 9,  
**dadurch gekennzeichnet,**  
**dass** das erste Auslösemittel für die innere Steckkarte des Weiteren umfasst: ein Ausschnittmittel (14); und ein im Wesentlichen an das Ausschnittmittel angrenzendes Verbindungsmittel (16).
11. Zuschnitt einer äußeren Pappmanschette nach Anspruch 9 oder 10,

**dadurch gekennzeichnet,**

**dass** das zweite Auslösemittel für die innere Steckkarte des Weiteren einen Auslöseknopf (30) umfasst.

12. Innere Pappsteckkarte (100) zur Gestaltung einer Einzeldosisappverpackung (150) mit einer äußeren Pappmanschette (15), wobei die innere Pappsteckkarte eine Vielzahl von Papppaneelen (102, 104, 118, 120) beinhaltet, ein Verriegelungsmittel (106, 108) für die innere Steckkarte und eine im Wesentlichen an das Verriegelungsmittel für die innere Steckkarte angrenzende Vielzahl von Einzeldosisabgabemitteln (110),

**dadurch gekennzeichnet,**

**dass** die Paneelen (102, 104, 118, 120) der Pappsteckkarte Teile eines umzufaltenden Pappzuschnitts (100) sind, wobei zumindest eine der Paneelen eine über die zumindest eine der Paneelen zu faltende Verlängerungspaneele (106, 108) aufweist, um das Verriegelungsmittel (106, 108) für die innere Steckkarte zu bilden.

## Revendications

1. Emballage en carton pour doses unitaires (150) présentant une pochette externe en carton (50) et une carte de glissement interne en carton (100) retenue de manière détachable à l'intérieur de ladite pochette externe (50) par un élément de blocage (14, 16, 30), ladite pochette externe (50) comprend une pluralité de panneaux latéraux (10, 18, 20, 24, 26) et un dispositif d'arrêt de la carte de glissement interne (4, 8) empêchant ladite carte de glissement interne (100) d'être complètement retirée de la pochette externe (50), et ladite carte de glissement interne (100) comprend une pluralité de moyens de distribution de doses unitaires (110), et des moyens de blocage de la carte de glissement interne (106, 108), **caractérisé en ce que**

ladite pluralité de panneaux latéraux (10, 18, 20, 24, 26) de ladite pochette externe (50) sont reliés les uns aux autres de manière opérationnelle de sorte qu'un panneau latéral (10) de ladite pluralité de panneaux latéraux comprend ledit dispositif d'arrêt de la carte de glissement interne (4, 8) et un premier moyen de relâchement de la carte de glissement interne (16) et un autre panneau latéral (26) de ladite pluralité desdits panneaux comprend un second moyen de relâchement de la carte de glissement interne (30), les premier et second moyens de relâchement de la carte de glissement interne (16, 30) formant une partie de l'élément de blocage (14, 16, 30), le dispositif d'arrêt de la carte de glissement interne (4, 8) et ledit élément de blocage (14, 16, 30) agissant conjointement avec lesdits moyens de blocage de la carte de glissement interne

(106, 108).

2. Emballage selon la revendication 1, **caractérisé en ce que**

ladite carte de glissement interne en carton (100) est composée d'une pluralité de panneaux en carton (102, 104, 118, 120) et parmi lesquels au moins un de ladite pluralité de panneaux en carton comprend une pluralité de trous de conditionnement de doses unitaires (110).

3. Emballage selon la revendication 1, **caractérisé en ce que**

ladite carte de glissement interne (100) est pliée de telle sorte qu'un utilisateur final accède à une dose unitaire enfermée dans le trou de conditionnement (110) en tirant la carte de glissement interne en dehors de la pochette externe (50) jusqu'à ce qu'elle soit arrêtée par un dispositif d'arrêt de la carte de glissement (4, 8).

4. Emballage selon la revendication 1 ou 3, **caractérisé en ce que**

lesdits moyens de retenue de la carte de glissement interne sont composés en outre d'au moins une extension de panneau latéral (8) fixée de manière articulée audit panneau latéral (10).

5. Emballage selon l'une quelconque des revendications 1 à 4, **caractérisé en ce que**

ledit premier moyen de relâchement de la carte de glissement interne est composé en outre d'un moyen de découpe (14) et d'un moyen formant noeud (16) situé de manière sensiblement adjacente audit moyen de découpe.

6. Emballage selon l'une quelconque des revendications 1 à 5, **caractérisé en ce que**

ledit second moyen de relâchement de la carte de glissement interne est composé en outre d'un bouton de relâchement (30).

7. Emballage selon l'une quelconque des revendications 1 à 6, **caractérisé en ce que**

lesdits moyens de blocage de la carte de glissement interne sont composés en outre de moyens d'extension de panneau (106, 108).

8. Emballage selon l'une quelconque des revendications 1 à 7, **caractérisé en ce qu'**

au moins deux panneaux latéraux (10, 26) de la pochette externe (50) sont pliés et collés l'un sur l'autre.

9. Découpe de pochette externe en carton (2) destinée à former un emballage en carton pour doses unitaires (150) avec une carte de glissement interne (100), ladite découpe comprend une pluralité de

panneaux latéraux (10, 18, 20, 24, 26), un panneau latéral de ladite pluralité de panneaux latéraux présentant un dispositif d'arrêt de la carte de glissement (4, 8), **caractérisé en ce que**

ladite pluralité de panneaux latéraux (10, 18, 20, 24, 26) sont reliés de manière opérationnelle les uns aux autres de telle sorte qu'un panneau latéral (10) de ladite pluralité de panneaux latéraux comprend ledit dispositif d'arrêt de la carte de glissement interne (4, 8) et un premier moyen de relâchement de la carte de glissement interne (16) et un autre panneau latéral (26) de ladite pluralité de panneaux latéraux comprend un second moyen de relâchement de la carte de glissement interne (30) dans lequel un mécanisme de déblocage destiné à sortir la carte de glissement interne (100) retenue à l'intérieur de la pochette externe (50) est formé à partir des deux moyens de relâchement de la carte de glissement interne et lorsque lesdits deux panneaux latéraux sont reliés de manière opérationnelle l'un à l'autre.

**10. Découpe de pochette externe en carton selon la revendication 9, caractérisée en ce que**

ledit premier moyen de relâchement de la carte de glissement interne est composé en outre d'un moyen de découpe (14) et d'un moyen formant noeud (16) situé de manière sensiblement adjacente audit moyen de découpe.

**11. Découpe de pochette externe en carton selon la revendication 9 ou 10, caractérisée en ce que**

ledit second moyen de relâchement de la carte de glissement interne est composé en outre d'un bouton de relâchement (30).

**12. Carte de glissement interne en carton (100) destinée à former un emballage en carton pour doses unitaires (150) avec une pochette externe en carton (15), ladite carte de glissement interne en carton comprend une pluralité de panneaux en carton (102, 104, 118, 120), des moyens de blocage de la carte de glissement interne (106, 108) et une pluralité de moyens de distribution de doses unitaires (110) disposés de manière sensiblement adjacente auxdits moyens de blocage de la carte de glissement interne, caractérisée en ce que**

lesdits panneaux (102, 104, 118, 120) de ladite carte de glissement en carton sont des parties d'une découpe en carton (100) destinées à être pliées, au moins un desdits panneaux présente un panneau d'extension (106, 108) destiné à être plié sur ledit au moins un panneau afin de former lesdits moyens de blocage de la carte de glissement (106, 108).



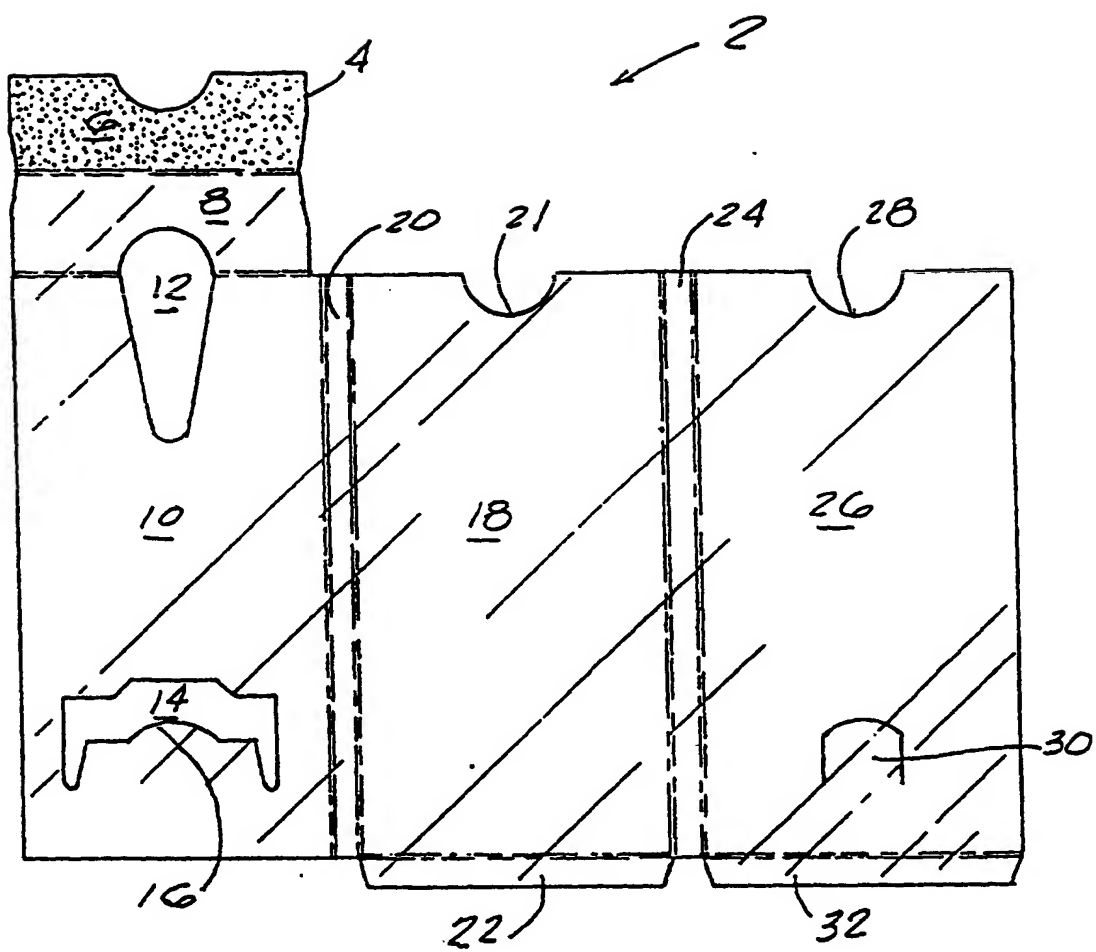


FIG. 1

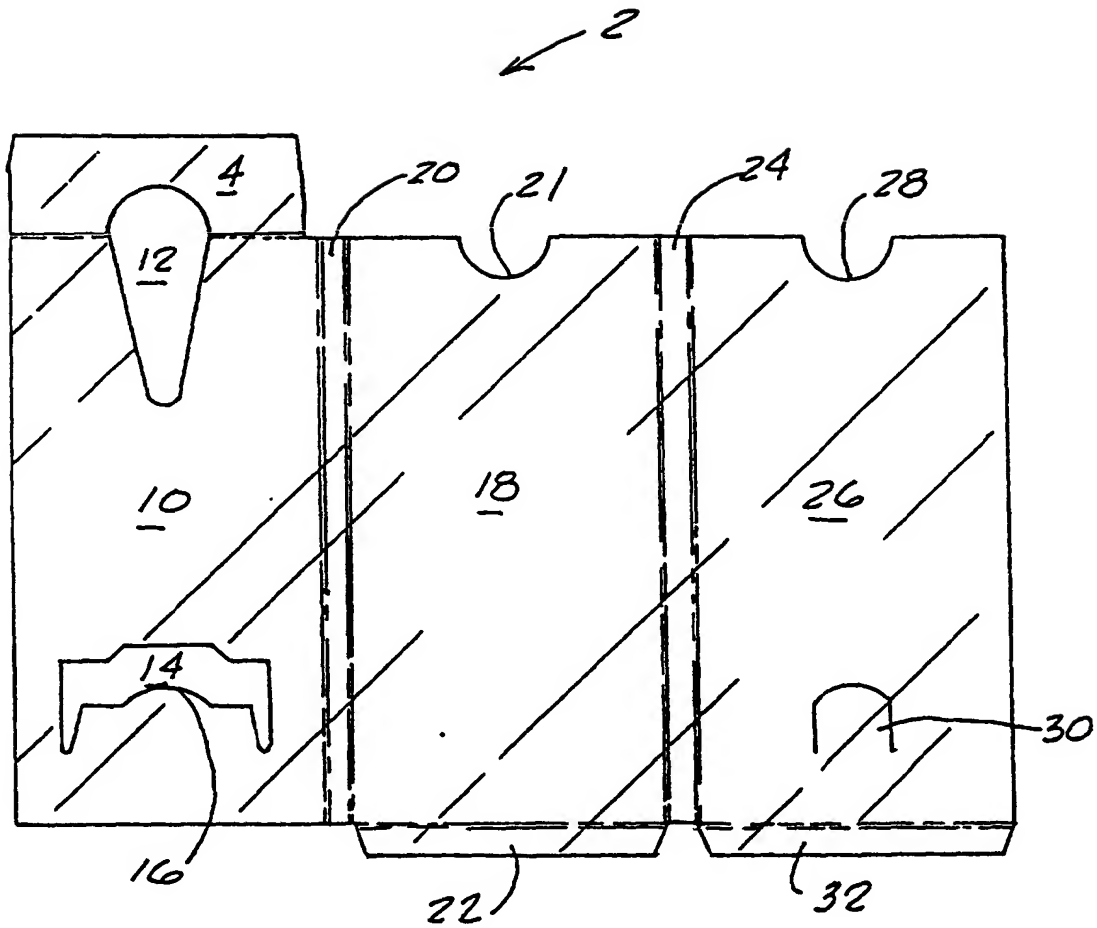


FIG. 2

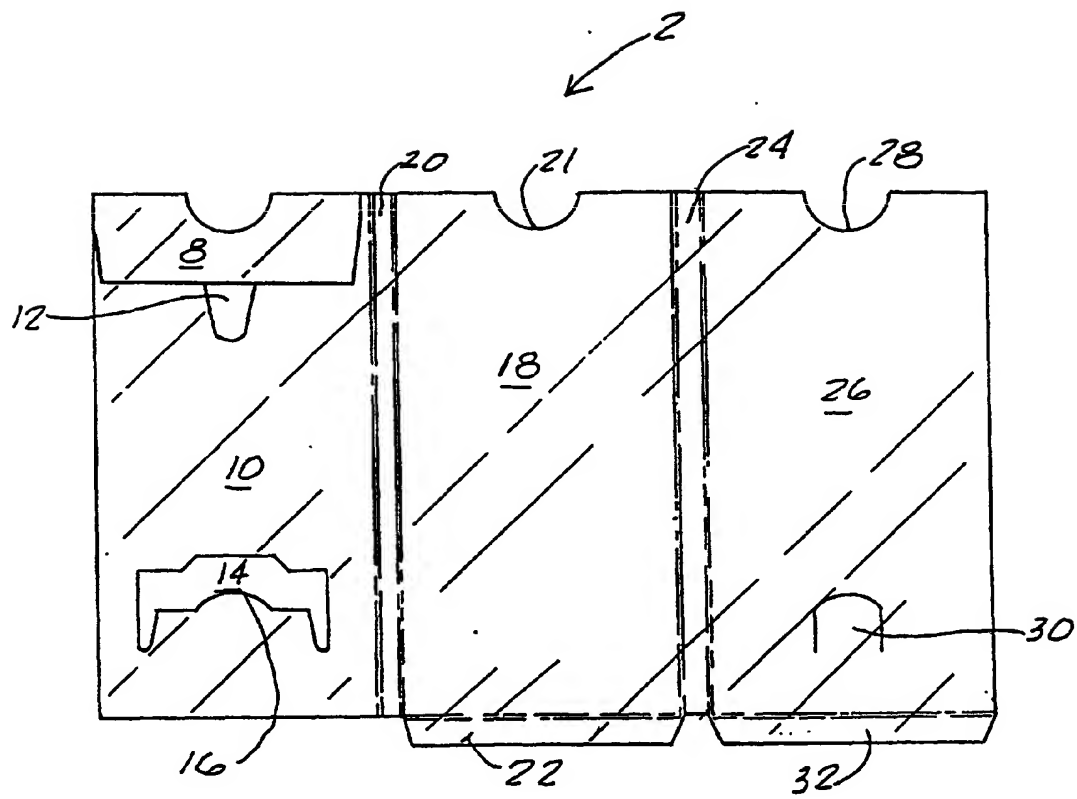


FIG. 3

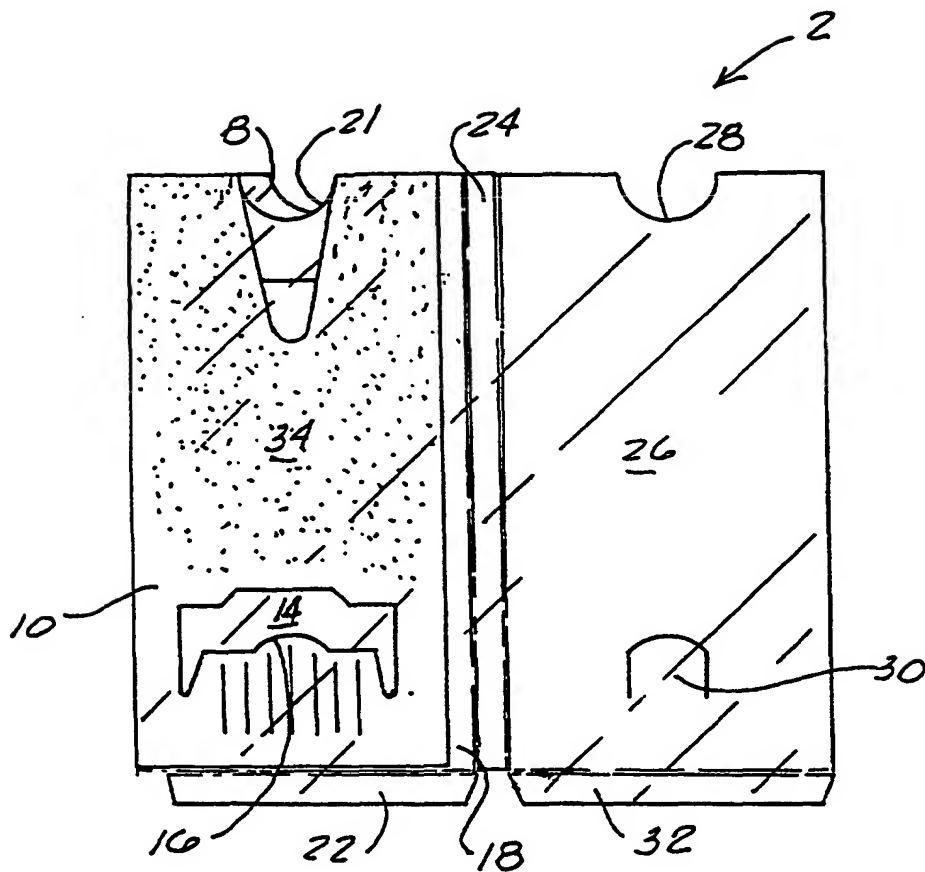


FIG. 4

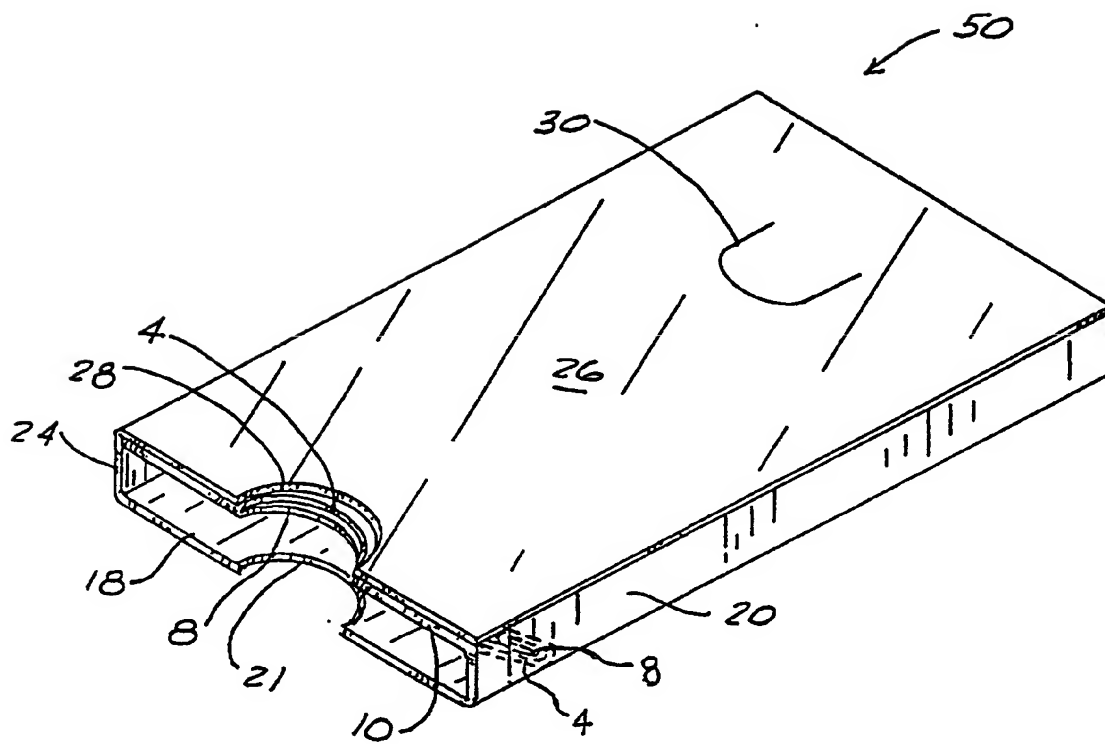


FIG. 5

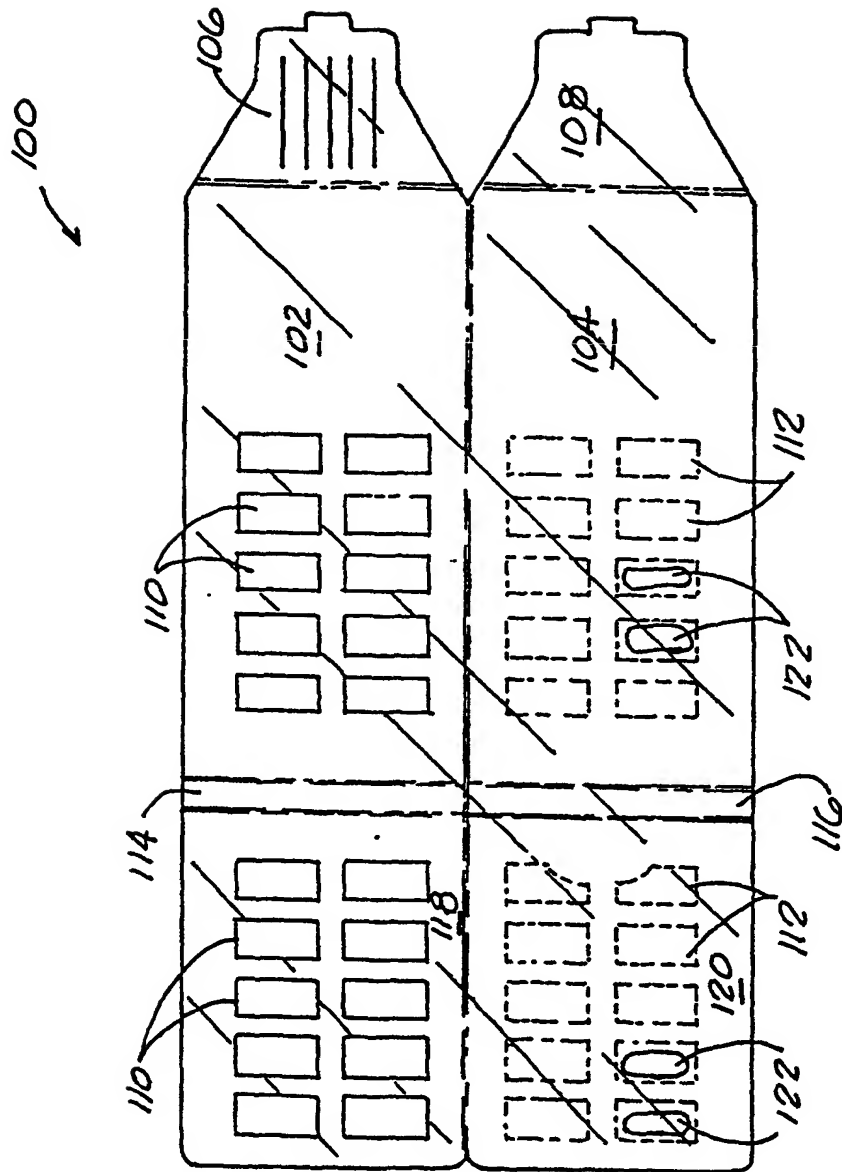


FIG. 6

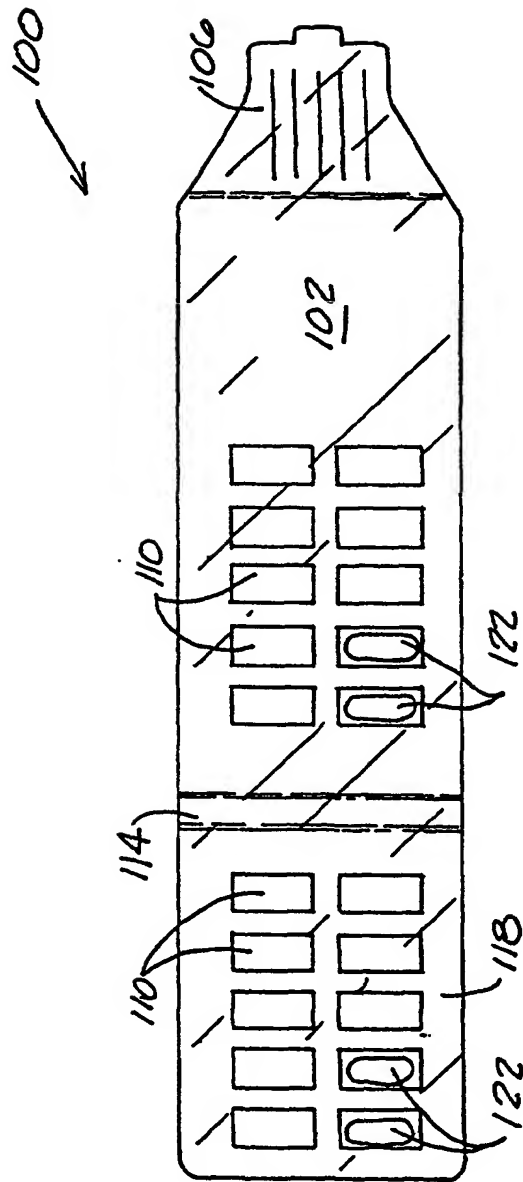


FIG. 7

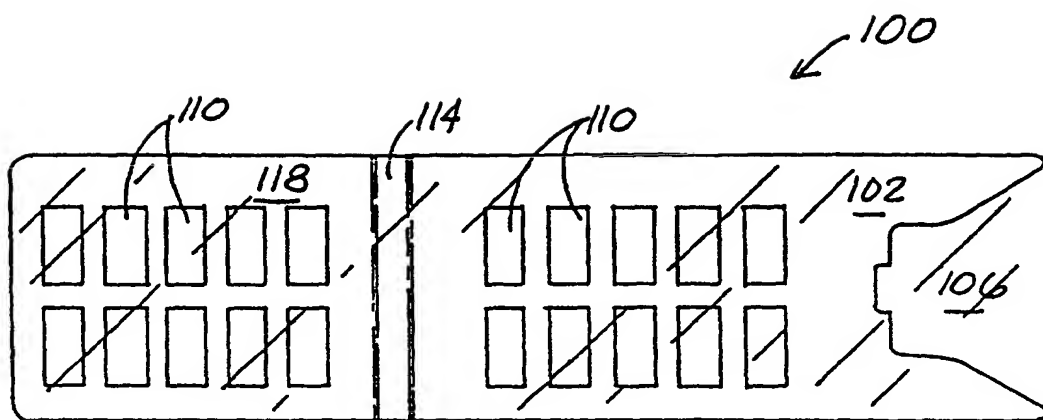


FIG. 8



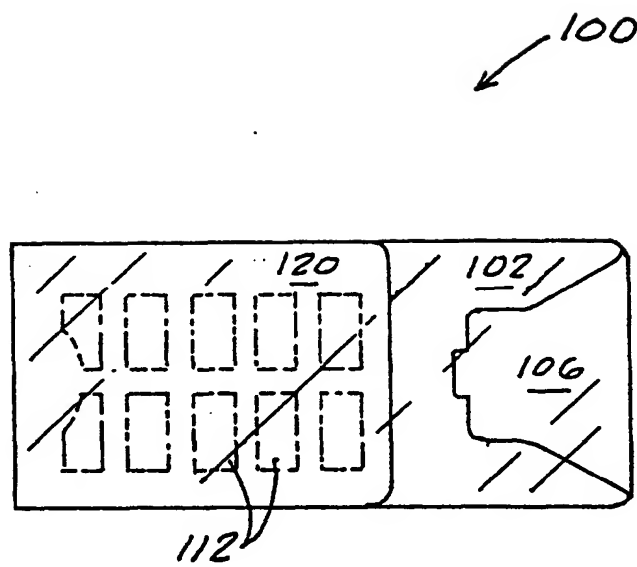


FIG. 9

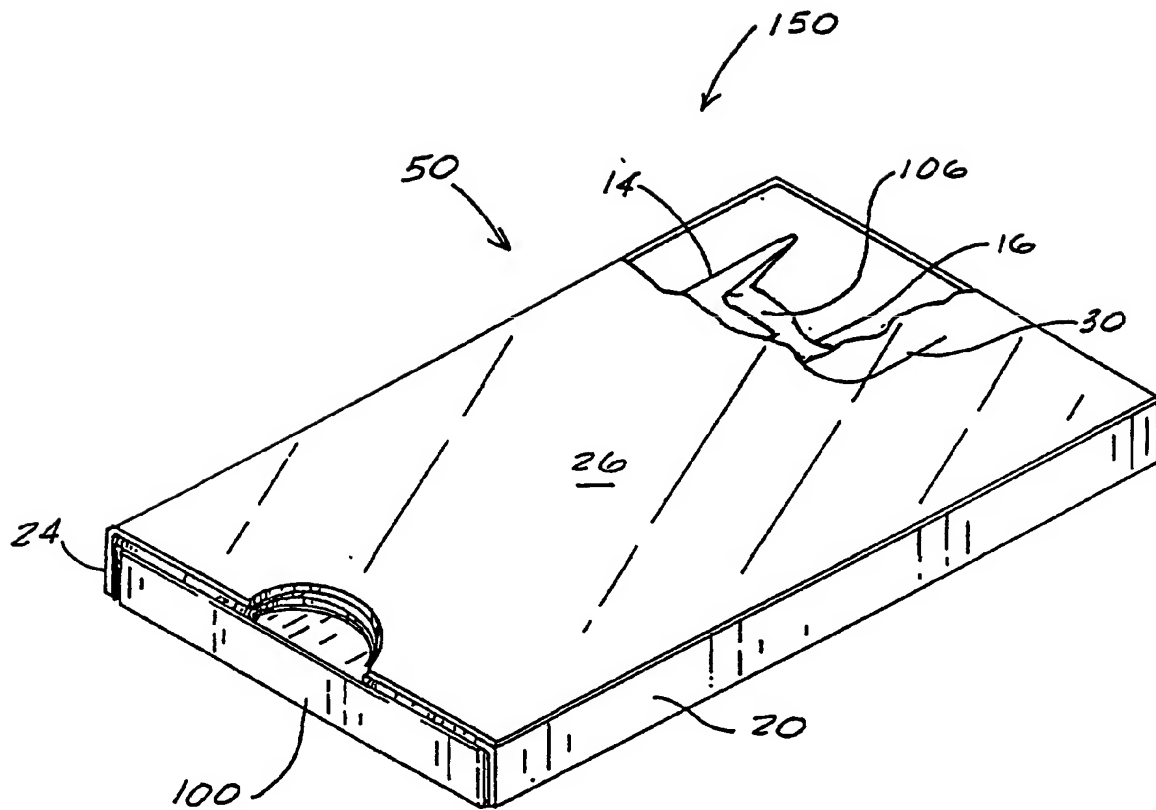


FIG. 10

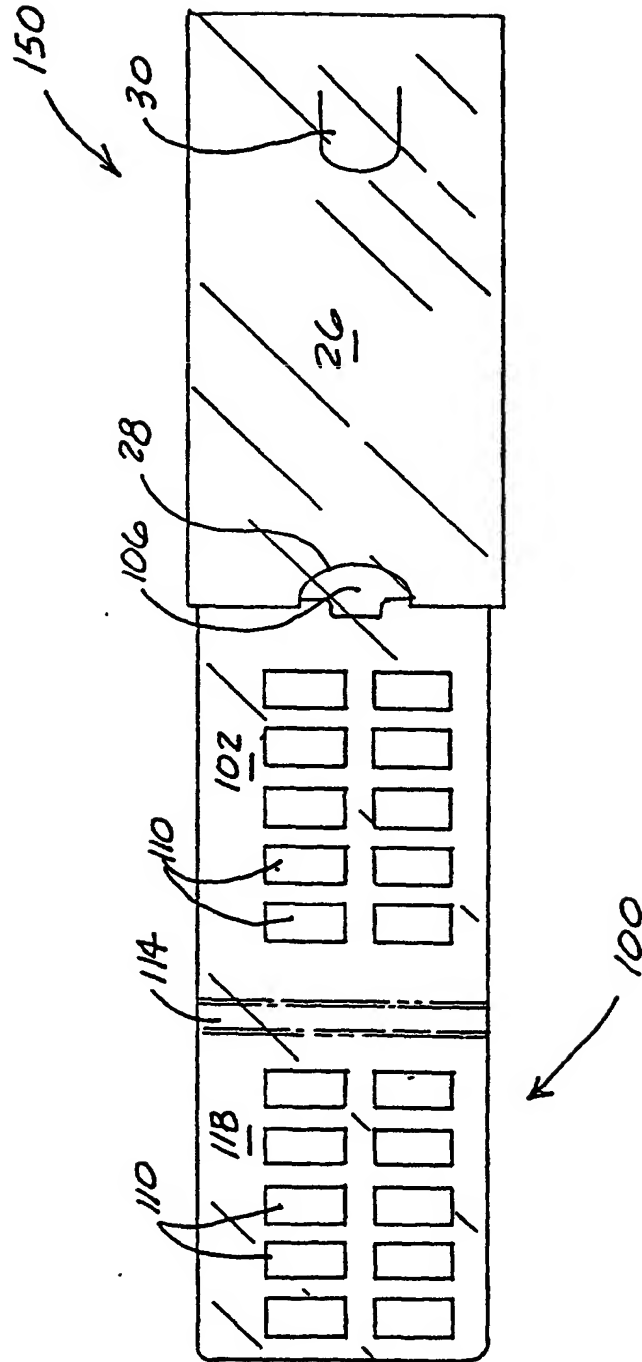


FIG. 11